

SEQUENCE LISTING

<110> KROPSHOFER, H.
 VOGT, A.
 ROEHN, T.A.

<120> Identification of novel MHC class II associated candidate tumor antigens

<130> Case 21412

<140>
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<150> EP 02022224.6
 <151> 2002-02-10

<160> 22

<170> PatentIn version 3.2

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Ile Met

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Asp Lys Ala Arg Val Glu Val Glu Arg Asp Asn Leu Ala Glu Asp Ile
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Met

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Ser Pro Lys Tyr Ile Lys Met Phe Val Leu Asp Glu Ala Asp Glu Met
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Ser Pro Lys Tyr Ile Lys Met Phe Val Leu Asp Glu Ala Asp Glu
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Gly Ser Ser Arg Val Leu Ile Thr Thr Asp Leu Leu Ala Arg Gly Ile
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Asp Val

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Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg Glu
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Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg

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Gly Gln Asp Leu Leu Phe Lys Asp Ala Thr Val Arg Ala Val Pro Val
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Gly

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Gly Gln Asp Leu Leu Phe Lys Asp Ala Thr Val Arg Ala Val Pro Val
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Cys Ala Gly Thr Gly Cys Gly Thr Gly Thr Cys Ala Gly Cys Cys Ala
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Ala Gly Thr Cys
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Thr Thr Cys Cys Cys Cys Gly Cys Cys Gly Thr Gly Thr Ala Ala Ala
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Thr Gly Thr

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Ala Gly Cys Gly Thr Cys Gly Ala Cys Cys Thr Gly Cys Thr Cys Ala
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Gly Cys Cys Thr Gly Gly
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Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro
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Leu Leu Met Gln Ala Leu Pro Met
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Phe Arg Gln Asp Val Asp Asn Ala Ser
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Val Glu Val Glu Arg Asp Asn Leu Ala
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Leu Phe Lys Asp Ala Thr Val Arg Ala
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Ala Pro Pro Ala Tyr Glu Lys Leu Ser Ala Glu Gln Ser Pro Pro Pro
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Tyr

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<309> 2001-10-16
<313> (1)..(738)

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Val Leu Gly Gly Met Glu Val Arg Trp Cys Ala Thr Ser Asp Pro Glu
20 25 30

Gln His Lys Cys Gly Asn Met Ser Glu Ala Phe Arg Glu Ala Gly Ile
35 40 45

Gln Pro Ser Leu Leu Cys Val Arg Gly Thr Ser Ala Asp His Cys Val
50 55 60

Gln Leu Ile Ala Ala Gln Glu Ala Asp Ala Ile Thr Leu Asp Gly Gly
65 70 75 80

Ala Ile Tyr Glu Ala Gly Lys Glu His Gly Leu Lys Pro Val Val Gly
85 90 95

Glu Val Tyr Asp Gln Glu Val Gly Thr Ser Tyr Tyr Ala Val Ala Val
100 105 110

Val Arg Arg Ser Ser His Val Thr Ile Asp Thr Leu Lys Gly Val Lys
115 120 125

Ser Cys His Thr Gly Ile Asn Arg Thr Val Gly Trp Asn Val Pro Val
130 135 140

Gly Tyr Leu Val Glu Ser Gly Arg Leu Ser Val Met Gly Cys Asp Val
145 150 155 160

Leu Lys Ala Val Ser Asp Tyr Phe Gly Gly Ser Cys Val Pro Gly Ala
165 170 175

Gly Glu Thr Ser Tyr Ser Glu Ser Leu Cys Arg Leu Cys Arg Gly Asp
180 185 190

Ser Ser Gly Glu Gly Val Cys Asp Lys Ser Pro Leu Glu Arg Tyr Tyr
195 200 205

Asp Tyr Ser Gly Ala Phe Arg Cys Leu Ala Glu Gly Ala Gly Asp Val
210 215 220

Ala Phe Val Lys His Ser Thr Val Leu Glu Asn Thr Asp Gly Lys Thr
225 230 235 240

Leu Pro Ser Trp Gly Gln Ala Leu Leu Ser Gln Asp Phe Glu Leu Leu
245 250 255

Cys Arg Asp Gly Ser Arg Ala Asp Val Thr Glu Trp Arg Gln Cys His
260 265 270

Leu Ala Arg Val Pro Ala His Ala Val Val Val Arg Ala Asp Thr Asp

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Gly	Gly	Leu	Ile	Phe	Arg	Leu	Leu	Asn	Glu	Gly	Gln	Arg	Leu	Phe	Ser
	290					295					300				
His	Glu	Gly	Ser	Ser	Phe	Gln	Met	Phe	Ser	Ser	Glu	Ala	Tyr	Gly	Gln
305					310					315					320
Lys	Asp	Leu	Leu	Phe	Lys	Asp	Ser	Thr	Ser	Glu	Leu	Val	Pro	Ile	Ala
				325					330					335	
Thr	Gln	Thr	Tyr	Glu	Ala	Trp	Leu	Gly	His	Glu	Tyr	Leu	His	Ala	Met
			340					345					350		
Lys	Gly	Leu	Leu	Cys	Asp	Pro	Asn	Arg	Leu	Pro	Pro	Tyr	Leu	Arg	Trp
		355					360					365			
Cys	Val	Leu	Ser	Thr	Pro	Glu	Ile	Gln	Lys	Cys	Gly	Asp	Met	Ala	Val
	370					375					380				
Ala	Phe	Arg	Arg	Gln	Arg	Leu	Lys	Pro	Glu	Ile	Gln	Cys	Val	Ser	Ala
385					390					395					400
Lys	Ser	Pro	Gln	His	Cys	Met	Glu	Arg	Ile	Gln	Ala	Glu	Gln	Val	Asp
				405					410					415	
Ala	Val	Thr	Leu	Ser	Gly	Glu	Asp	Ile	Tyr	Thr	Ala	Gly	Lys	Lys	Tyr
			420					425					430		
Gly	Leu	Val	Pro	Ala	Ala	Gly	Glu	His	Tyr	Ala	Pro	Glu	Asp	Ser	Ser
		435					440					445			
Asn	Ser	Tyr	Tyr	Val	Val	Ala	Val	Val	Arg	Arg	Asp	Ser	Ser	His	Ala
	450					455					460				
Phe	Thr	Leu	Asp	Glu	Leu	Arg	Gly	Lys	Arg	Ser	Cys	His	Ala	Gly	Phe
465					470					475					480
Gly	Ser	Pro	Ala	Gly	Trp	Asp	Val	Pro	Val	Gly	Ala	Leu	Ile	Gln	Arg
				485					490					495	
Gly	Phe	Ile	Arg	Pro	Lys	Asp	Cys	Asp	Val	Leu	Thr	Ala	Val	Ser	Glu
			500					505					510		
Phe	Phe	Asn	Ala	Ser	Cys	Val	Pro	Val	Asn	Asn	Pro	Lys	Asn	Tyr	Pro
		515					520					525			
Ser	Ser	Leu	Cys	Ala	Leu	Cys	Val	Gly	Asp	Glu	Gln	Gly	Arg	Asn	Lys
	530					535					540				
Cys	Val	Gly	Asn	Ser	Gln	Glu	Arg	Tyr	Tyr	Gly	Tyr	Arg	Gly	Ala	Phe
545					550					555					560
Arg	Cys	Leu	Val	Glu	Asn	Ala	Gly	Asp	Val	Ala	Phe	Val	Arg	His	Thr
				565					570					575	

Thr Val Phe Asp Asn Thr Asn Gly His Asn Ser Glu Pro Trp Ala Ala
 580 585 590
 Glu Leu Arg Ser Glu Asp Tyr Glu Leu Leu Cys Pro Asn Gly Ala Arg
 595 600 605
 Ala Glu Val Ser Gln Phe Ala Ala Cys Asn Leu Ala Gln Ile Pro Pro
 610 615 620
 His Ala Val Met Val Arg Pro Asp Thr Asn Ile Phe Thr Val Tyr Gly
 625 630 635 640
 Leu Leu Asp Lys Ala Gln Asp Leu Phe Gly Asp Asp His Asn Lys Asn
 645 650 655
 Gly Phe Lys Met Phe Asp Ser Ser Asn Tyr His Gly Gln Asp Leu Leu
 660 665 670
 Phe Lys Asp Ala Thr Val Arg Ala Val Pro Val Gly Glu Lys Thr Thr
 675 680 685
 Tyr Arg Gly Trp Leu Gly Leu Asp Tyr Val Ala Ala Leu Glu Gly Met
 690 695 700
 Ser Ser Gln Gln Cys Ser Gly Ala Ala Ala Pro Ala Pro Gly Ala Pro
 705 710 715 720
 Leu Leu Pro Leu Leu Leu Pro Ala Leu Ala Ala Arg Leu Leu Pro Pro
 725 730 735
 Ala Leu